



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/505,190

DATE: 08/26/2004
TIME: 15:53:37

Input Set : A:\WSUR23484Seq.txt
Output Set: N:\CRF4\08262004\J505190.raw

3 <110> APPLICANT: Ryan, Clarence A.
4 Narvaez, Javier
5 Pearce, Gregory L.
6 McGurl, Barry F.
8 <120> TITLE OF INVENTION: Methods for Increasing the Amount of Protein in Potato
Tubers
10 <130> FILE REFERENCE: WSUR123484
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/505,190
C--> 12 <141> CURRENT FILING DATE: 2004-08-19
12 <150> PRIOR APPLICATION NUMBER: US 60/359,472
13 <151> PRIOR FILING DATE: 2002-02-22
15 <150> PRIOR APPLICATION NUMBER: PCT/US03/05026
16 <151> PRIOR FILING DATE: 2003-02-20
18 <160> NUMBER OF SEQ ID NOS: 8
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 18
24 <212> TYPE: PRT
25 <213> ORGANISM: Tomato Systemin
27 <400> SEQUENCE: 1
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30 1 5 10 15
33 Thr Asp
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 951
39 <212> TYPE: DNA
40 <213> ORGANISM: Lycopersicon esculentum
42 <220> FEATURE:
43 <221> NAME/KEY: CDS
44 <222> LOCATION: (105)..(704)
45 <223> OTHER INFORMATION:
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51 tataaagctc agctcatgaa gagttgaaat aaactaagaa aacc atg gga act cct 116
52 Met Gly Thr Pro
53 1
55 tca tat gat atc aaa aac aaa gga gat gac atg caa gaa gaa cca aag 164
56 Ser Tyr Asp Ile Lys Asn Lys Gly Asp Asp Met Gln Glu Glu Pro Lys
57 5 10 15 20
59 gtg aaa ctt cac cat gag aag gga gga gat gaa aag gaa aaa ata att 212
60 Val Lys Leu His His Glu Lys Gly Gly Asp Glu Lys Glu Lys Ile Ile
61 25 30 35
63 gaa aaa gag act cca tcc caa gat atc aac aac aaa gat acc atc tct 260
64 Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys Asp Thr Ile Ser



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65	40	45	50	
67	tca tat gtt tta aga gat gat aca caa gaa ata cca aag atg gaa cat			308
68	Ser Tyr Val Leu Arg Asp Asp Thr Gln Glu Ile Pro Lys Met Glu His			
69	55	60	65	
71	gag gag gga gga tat gta aag gag aaa att gtt gaa aag gag act ata			356
72	Glu Glu Gly Gly Tyr Val Lys Glu Lys Ile Val Glu Lys Glu Thr Ile			
73	70	75	80	
75	tcc caa tat atc atc aag att gaa gga gat gat gat gca caa gaa aaa			404
76	Ser Gln Tyr Ile Ile Lys Ile Glu Gly Asp Asp Asp Ala Gln Glu Lys			
77	85	90	95	100
79	cta aag gtt gag tat gag gag gaa gaa tat gaa aaa gag aaa ata gtt			452
80	Leu Lys Val Glu Tyr Glu Glu Glu Tyr Glu Lys Glu Lys Ile Val			
81	105	110	115	
83	gaa aaa gag act cca tcc caa gat atc aac aac aaa gga gat gat gca			500
84	Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys Gly Asp Asp Ala			
85	120	125	130	
87	caa gaa aaa cca aag gtg gaa cat gag gaa gga gat gac aaa gag act			548
88	Gln Glu Lys Pro Lys Val Glu His Glu Glu Gly Asp Asp Lys Glu Thr			
89	135	140	145	
91	cca tca caa gat atc atc aag atg gaa ggg gag ggt gca cta gaa ata			596
92	Pro Ser Gln Asp Ile Ile Lys Met Glu Gly Glu Gly Ala Leu Glu Ile			
93	150	155	160	
95	aca aag gtg gta tgt gag aaa att ata gta cga gaa gat ctt gct gtt			644
96	Thr Lys Val Val Cys Glu Lys Ile Ile Val Arg Glu Asp Leu Ala Val			
97	165	170	175	180
99	caa tca aaa cct cca tca aag cgt gat cct ccc aaa atg caa aca gac			692
100	Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys Met Gln Thr Asp			
101	185	190	195	
103	aat aat aaa ctc tagaaacatc caaaaaaaaaat taataaataaa aaaattataaa			744
104	Asn Asn Lys Leu			
105	200			
107	ttcagaacga taaaagtaaaa attctgaatt tgtctccgt tagaaaaagta acttcaaata			804
109	aatatttgtc tttcttgta ttttcaaagt gtaatttggt tattgtactt tgagaagctt			864
111	tcttttagatt gttatgtact tgtattgcctt cctttttttt ggcttattta tataatataaa			924
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119	<213> ORGANISM: Lycopersicon esculentum			
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127	Glu Glu Pro Lys Val Lys Leu His His Glu Lys Gly Gly Asp Glu Lys			
128	20	25	30	
131	Glu Lys Ile Ile Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys			
132	35	40	45	
135	Asp Thr Ile Ser Ser Tyr Val Leu Arg Asp Asp Thr Gln Glu Ile Pro			
136	50	55	60	
139	Lys Met Glu His Glu Glu Gly Gly Tyr Val Lys Glu Lys Ile Val Glu			

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140 65 70 75 80
143 Lys Glu Thr Ile Ser Gln Tyr Ile Ile Lys Ile Glu Gly Asp Asp Asp
144 85 90 95
147 Ala Gln Glu Lys Leu Lys Val Glu Tyr Glu Glu Glu Tyr Glu Lys
148 100 105 110
151 Glu Lys Ile Val Glu Lys Glu Thr Pro Ser Gln Asp Ile Asn Asn Lys
152 115 120 125
155 Gly Asp Asp Ala Gln Glu Lys Pro Lys Val Glu His Glu Glu Gly Asp
156 130 135 140
159 Asp Lys Glu Thr Pro Ser Gln Asp Ile Ile Lys Met Glu Gly Glu Gly
160 145 150 155 160
163 Ala Leu Glu Ile Thr Lys Val Val Cys Glu Lys Ile Ile Val Arg Glu
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167 Asp Leu Ala Val Gln Ser Lys Pro Pro Ser Lys Arg Asp Pro Pro Lys
168 180 185 190
171 Met Gln Thr Asp Asn Asn Lys Leu
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175 <210> SEQ ID NO: 4
176 <211> LENGTH: 54
177 <212> TYPE: DNA
178 <213> ORGANISM: Lycopersicon esculentum
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185 <211> LENGTH: 18
186 <212> TYPE: PRT
187 <213> ORGANISM: Potato Systemin
189 <400> SEQUENCE: 5
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192 1 5 10 15
195 Thr Asp
199 <210> SEQ ID NO: 6
200 <211> LENGTH: 18
201 <212> TYPE: PRT
202 <213> ORGANISM: Potato Systemin
204 <400> SEQUENCE: 6
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207 1 5 10 15
210 Thr Asp
214 <210> SEQ ID NO: 7
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216 <212> TYPE: PRT
217 <213> ORGANISM: Nightshade Systemin
219 <400> SEQUENCE: 7
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222 1 5 10 15
225 Thr Asp
229 <210> SEQ ID NO: 8
230 <211> LENGTH: 18

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231 <212> TYPE: PRT

232 <213> ORGANISM: Pepper Systemin

234 <400> SEQUENCE: 8

236 Ala Val His Ser Thr Pro Pro Ser Lys Arg Pro Pro Pro Lys Met Gln

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240 Thr Asp

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:48 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:2,Line#:45